## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A portable multi-functional electronic communication and medical diagnostic device operable in a first operational mode as one or more of a cellular phone, pager, and beeper, and in a second operational mode for use in a medical diagnosis, the device comprising:

## an outer casing;

a vibratory component <u>disposed within the outer casing</u> for generating vibration <u>at</u> one or more of an available plurality of magnitudes, the vibratory component being adapted to generate vibration in <u>the a-first operational mode of the device</u> in response to a remote wireless signal <u>when the device is operated as one or more of a cellular phone, pager, and beeper,</u> the vibratory component being further adapted to generate <del>quantified vibration in the a second operational mode of the device at one or more selected magnitudes and one or more frequencies for use when the device is used in a medical diagnosis;</del>

a mode selector for selecting between the first <u>operational</u> mode of <u>the device</u> <u>vibration</u> and the second <u>operational</u> mode of <u>the device</u> <u>vibration</u>;

a probe projecting outwardly from the outer casing for transmitting vibration from the vibratory component to a subject; and

a display for indicating one or more of the magnitude of vibration and the frequency of vibration being generated by the vibratory component in the second mode.

- 2. (Canceled)
- 3. (Canceled)
- 4. (Previously presented) The device of claim 1, further comprising a selector for selecting the one or more magnitudes of vibration in the second mode.

- 5. (Previously presented) The device of claim 4, wherein the component generates vibration of a fixed magnitude in the second mode.
- 6. (Previously presented) The device of claim 4, wherein the component generates a plurality of sets of vibration each of a fixed magnitude in the second mode.
- 7. (Previously presented) The device of claim 4, wherein the component generates vibration of a variable magnitude in the second mode.
- 8. (Previously presented) The device of claim 7, wherein the magnitude is variable in a linear, curvilinear, or step-like manner.
- 9. (Previously presented) The device of claim 55, wherein the component generates vibration at a fixed frequency in the second mode.
- 10. (Previously presented) The device of claim 55, wherein the component generates a plurality of sets of vibration each at a fixed frequency in the second mode.
- 11. (Previously presented) The device of claim 55, wherein the component generates vibration at a variable frequency in the second mode.
- 12. (Currently amended) The device of claim 1, wherein the device can be used in the second mode to determine one or more of a vibration perception threshold, a vibration disappearance threshold, and a vibration threshold, the device further comprising one or both of an audio display and a or-visual display to indicate one or more of the vibration perception threshold, the vibration disappearance threshold, and the vibration threshold.
- 13. (Previously presented) The device of claim 12, further comprising at least one component for storing and/or processing data including one or more of the vibration perception threshold, the vibration disappearance threshold, and the vibration threshold.

14. (Currently amended) A portable multi-functional electronic communication and medical diagnostic device operable in a first mode and in a second mode, comprising:

an outer casing:

a vibratory component <u>disposed within the outer casing</u> for generating vibration <u>at</u> one or more of an available plurality of magnitudes and at least one frequency in first and second modes, the vibratory component being adapted to generate vibration at a preprogrammed magnitude and frequency in the first mode <u>of the device</u>, the component being adapted to generate <del>quantified</del> vibration at <u>a frequency and at</u> one or more <u>selected</u> magnitudes in <u>of a selected magnitude and a selected frequency in the second mode <u>of the</u> device;</u>

a selector for selecting one or the other of said first and second modes;
a probe from transmitting vibration from the vibratory component to a subject; and
a display for indicating one or both more of the magnitude of vibration and the
frequency of vibration in the second mode;

wherein in the first mode the device functions as a portable electronic device comprising one or more of a cellular phone, pager, and beeper; and

wherein in the second mode the device operates to detect the presence or absence of neuropathy in a subject.

- 15. (Canceled)
- 16. (Canceled)
- 17. (Previously presented) The device of claim 14, wherein the selected magnitude comprises a fixed magnitude.
- 18. (Previously presented) The device of claim 17, wherein the selected magnitude comprises a plurality of sets of vibrations each of a fixed magnitude.

- 19. (Previously presented) The device of claim 14, wherein the selected magnitude comprises a variable magnitude.
- 20. (Previously presented) The device of claim 19, wherein the selected magnitude varies in a linear, curvilinear, or step-like manner.
- 21. (Previously presented) The device of claim 14, wherein the selected frequency comprises a fixed frequency.
- 22. (Previously presented) The device of claim 14, wherein the selected frequency comprises a plurality of sets of vibration each at a fixed frequency.
- 23. (Previously presented) The device of claim 14, wherein the selected frequency comprises a variable frequency.
- 24. (Currently amended) The device of claim 14, wherein the probe can be used to determine one or more of a vibration perception threshold, a vibration disappearance threshold, and a vibration threshold, the device further comprising one or both of an audio display and a or-visual display to indicate one or more of the vibration perception threshold, the vibration disappearance threshold, and the vibration threshold.
- 25. (Previously presented) The device of claim 24, further comprising at least one component for storing and/or processing data including one or more of the vibration perception threshold, the vibration disappearance threshold, and the vibration threshold.
  - 26. (Canceled)
  - 27. (Canceled)
  - 28. (Currently amended) A medical diagnosis method, comprising:

providing a portable multi-functional electronic communication and medical diagnostic device operable in a first operational mode and a second operational mode, the device comprising a component for generating vibration at one or more of an available plurality of magnitudes, an outer casing enclosing the component, and a probe extending outwardly from the outer casing, the probe being caused to vibrate by the component, the component being adapted to generate vibration in response to a remote wireless signal in the a-first mode when the device is operated as an electronic communication device comprising one or more of a cellular phone, pager, and beeper, the component being further adapted to generate vibration in the a-second mode when the device is used for medical diagnosis;

selecting the second mode of the device to the exclusion of the first mode of the device;

selecting one or more magnitudes of vibration to be used in medical diagnosis; generating vibration;

applying the probe device to a subject; and

diagnosing a medical condition based on detection or non-detection of vibration by the subject.

## 29. (Canceled)

- 30. (Currently amended) The method of claim 28, further comprising[[:]] determining a threshold for the subject's ability to detect vibration <u>based on whether the subject can detect vibration at the selected one or more magnitudes of vibration-by-generating a predetermined magnitude or frequency</u>.
- 31. (Currently amended) The method of claim 30, wherein[[:]] the threshold is graded low if the subject detects vibration, and high if the subject cannot detect vibration.
- 32. (Currently amended) The method of claim 30-28, further comprising[[:]] increasing the magnitude of vibration and determining a vibration perception threshold based

on for the subject's ability to detect vibration while the magnitude of vibration is increased by increasing the magnitude or frequency of vibration.

- 33. (Currently amended) The method of claim 32, wherein[[:]] the vibration perception threshold is graded low, medium, or high when compared to a preset standard thereby indicating the severity of the medical condition.
- 34. (Currently amended) The method of claim 30-28, further comprising[[:]] decreasing the magnitude of vibration and determining a vibration disappearance threshold based on for the subject's ability to no longer detect vibration while the magnitude of vibration is decreased by decreasing the magnitude or frequency of vibration.
- 35. (Currently amended) The method of claim 34, wherein[[:]] the vibration disappearance threshold is graded low, medium, or high when compared to a preset standard thereby indicating the severity of the medical condition.
- 36. (Currently amended) The method of claim 28, wherein[[:]] the medical condition comprises neuropathy.
- 37. (Currently amended) The method of claim 36, wherein[[:]] the step of generating vibration comprises generating vibration of a predetermined-magnitude or frequency equal corresponding to about the 95th-97th percentiles of a threshold magnitude of vibration for neuropathy in a normal population.
- 38. (Currently amended) The method of claim 37, wherein[[:]] detection of yibration by the subject indicates an absence of neuropathy, and non-detection indicates a presence of neuropathy.
- 39. (Currently amended) The method of claim 30, wherein[[:]] the magnitude of frequency of vibration is fixed.

- 40. (Currently amended) The method of claim 30, wherein[[:]] the magnitude of vibration or frequency is variable in a linear, curvilinear, or step-like manner.
- 41. (Currently amended) The method of claim 36, wherein[[:]] the device is applied to an extremity of the subject.
- 42. (Currently amended) A method of detecting neuropathy in a subject, comprising:

providing a portable multi-functional electronic communication and medical diagnostic device operable in a first operational mode and a second operational mode, the device comprising a component for generating vibration at one or more of an available plurality of magnitudes, an outer casing enclosing the component, and a probe extending outwardly from the outer casing, the probe being caused to vibrate by the component, the component being adapted to generate vibration in response to a remote wireless signal in the a-first mode when the device is operated as an electronic communication device comprising one or more of a cellular phone, pager, and beeper, the component being further adapted to generate vibration at one or more a selected one or more selected magnitudes or frequencies in the a-second mode when the device is used for medical diagnosis;

selecting the second mode of the device to the exclusion of the first mode of the device-vibration;

generating vibration of a predetermined magnitude or frequency as a threshold stimulus and applying the probe device to a subject; and

allowing the subject to indicate whether or not vibration can be detected; and determining the absence or presence of neuropathy by the subject's ability to detect or not detect the vibration.

## 43. (Canceled)

- 44. (Currently amended) The method of claim 42, wherein[[:]] the threshold stimulus magnitude of vibration generated by the component corresponds is equal-to about the 95th 97th percentiles of a threshold magnitude of vibration for neuropathy in a normal population.
- 45. (Currently amended) The method of claim 42, wherein[[:]] the step of generating vibration comprises generating vibration of a fixed magnitude-or frequency.
- 46. (Currently amendeded) The method of claim 42, wherein[[:]] the step of generating vibration comprises generating vibration of a variable magnitude or frequency.
- 47. (Currently amended) The method of claim 46, further comprising[[:]] increasing the magnitude of vibration and determining a vibration perception threshold <u>based</u> on for the subject's ability to detect vibration while the magnitude of vibration is increased-by increasing the magnitude or frequency of vibration.
- 48. (Currently amended) The method of claim 47, wherein[[:]] the vibration perception threshold is graded low, medium, or high when compared to a preset standard thereby indicating the severity of neuropathy.
- 49. (Currently amended) The method of claim 46, further comprising[[:]] decreasing the magnitude of vibration and determining a vibration disappearance threshold for the subject's ability to no longer detect vibration while the magnitude of vibration is decreased by decreasing the magnitude or frequency of vibration.
- 50. (Currently amended) The method of claim 49, wherein[[:]] the vibration disappearance threshold is graded low, medium, or high when compared to a preset standard thereby indicating the severity of neuropathy.
  - 51. (Currently amended) A medical diagnosis method, comprising:

providing a portable multi-functional electronic communication and medical diagnostic device operable in a first operational mode and a second operational mode, the device comprising a component for generating vibration at one or more of an available plurality of magnitudes, an outer casing enclosing the component, and a probe extending outwardly from the outer casing, the probe being caused to vibrate by the component, the component being adapted to generate vibration in response to a remote wireless signal in the a-first mode when the device is operated as an electronic communication device comprising one or more of a cellular phone, pager, and beeper, the component being further adapted to generate vibration in the a-second mode when the device is used for medical diagnosis;

selecting the second mode of the device to the exclusion of the first mode of the device vibration;

applying the <u>probe\_device-to</u> a subject and generating vibration<u>at one or more</u> selected <u>magnitudes</u>; and

diagnosing a medical condition based on detection or non-detection of vibration by the subject.

- 52. (Canceled)
- 53. (Currently amended) A method of detecting neuropathy in a subject, comprising:

providing a portable multi-functional electronic communication and medical diagnostic device operable in a first operational mode and a second operational mode, the device comprising a component for generating vibration at a one or more of an available plurality of magnitudes, an outer casing enclosing the component, and a probe extending outwardly from the outer casing, the probe being caused to vibrate by the component, the component being adapted to generate vibration in response to a remote wireless signal in the a-first mode when the device is operated as an electronic communication device comprising one or more of a cellular phone, pager, beeper, the component being further adapted to generate vibration at one or more selected magnitudes or frequencies in the a-second mode when the device is used for medical diagnosis;

selecting the second mode of the device to the exclusion of the first mode of the device vibration;

applying the <u>probe device</u> to a subject and generating vibration at one or more selected magnitudes of a predetermined magnitude or frequency as a threshold stimulus; and allowing the subject to indicate whether or not vibration can be detected; <u>and</u> determining the absence or presence of neuropathy by the subject's ability to detect or not detect the vibration.

- 54. (Canceled)
- 55. (Currently amended) The device of claim 1, the vibratory component being further adapted to generate vibration a selected one or more of an available plurality of frequencies, the device further comprising a selector for selecting the one or more frequencies of vibration in the second mode.
  - 56. (Canceled)
  - 57. (Canceled)
- 58. (Currently amended) The device of claim 1, wherein the device is adapted to be applied to several extremities of a subject, one extremity at a time, the extremities including[[:]] a finger, a toe, a tibia, a wrist, and a face.
- 59. (Previously presented) The device of claim 1, wherein the vibratory component comprises a motor for generating vibration, a vibrating head adapted to be applied to the extremity of a subject, and a shaft transmitting vibration from the motor to the vibrating head.
- 60. (Previously presented) The device of claim 59, wherein the motor is a DC motor and the shaft comprises an offset weight thereon.

- 61. (Previously presented) The device of claim 59, wherein the motor is a piezoelectric transducer.
- 62. (Previously presented) The device of claim 1, further comprising a mechanism for audibly indicating one or both of the magnitude of vibration and the frequency of vibration being generated by the vibratory component in the second mode.
  - 63. (New) A portable electronic device comprising: an outer casing;

a vibratory component disposed within the outer casing for generating vibration having at least one magnitude selectable from an available plurality of magnitudes;

a probe projecting outwardly from the casing for transmitting vibration from the vibratory component to a subject;

a mode selector for selecting between a first mode of the device and a second mode of the device;

a magnitude selector for selecting at least one magnitude of vibration of the vibratory component in the second mode, wherein the selected at least one magnitude is a fixed magnitude, a linearly increasing or decreasing magnitude, a curvilinearly increasing or decreasing magnitude, a step-wise increasing or decreasing magnitude, or a combination thereof; and

a display for indicating the magnitude of vibration generated by the vibratory component in the second mode;

wherein in the first mode the device is operable as at least one of a cellular phone, a pager, and a beeper, and the vibratory component generates vibration in response to a remote wireless signal; and

wherein in the second mode the device is operable as a medical diagnostic device and the vibratory component generates vibration of the at least one magnitude of vibration selected by the magnitude selector.

- 64. (New) The device of claim 1, wherein the outer casing is isolated from the vibration generated by the vibratory component.
- 65. (New) The method of claim 28, wherein the outer casing is isolated from the vibration generated by the vibratory component.